

TRANSMISSION LINE STRUCTURE AND METHOD OF SIGNAL PROPAGATION

Abstract

A transmission line structure comprises a plurality of conductive lines over an insulating layer. With three conductive lines, a center conductive line is disposed between the outer conductive lines to define a gap distance therebetween that is less than their height. In a further aspect, a conductive layer (e.g., a ground plane) contacts the insulating layer on a side thereof opposite the plurality of conductive lines. A ratio for the height of the conductive lines relative to the distance therebetween is kept greater than another ratio for the width of the center conductor relative to the thickness of the insulating layer.